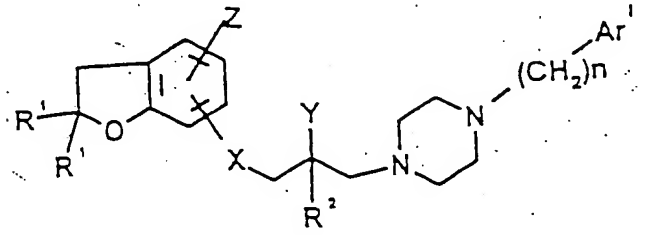
## LISTING OF CLAIMS:


1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Original). A piperazinylalkylbenzofuran derivative of the formula



Ia

as claimed in Claim 1, wherein

$R^1$ represents a $C_{1-4}$ alkyl group,

$R^2$ stands for a hydrogen atom,

X means an oxygen atom,

Y is a hydroxy group,

Z represents a hydrogen atom,

Ar' represents a diphenylmethyl group, a pyridyl group, a partially saturated 5-membered heterocyclic group ~~containing two oxygen atoms and being condensed with a phenyl group~~, or a phenyl group ~~substituted by substituents~~ $R^5$, $R^6$ and $R^7$, wherein

$R^5$, $R^6$ and $R^7$ mean, independently, a hydrogen atom, a halo atom, a trifluoromethyl group, a $C_{1-4}$ alkyl group, a $C_{1-4}$ alkoxy group, or a methylenedioxy group,

n has a value of 0 or 1,

and pharmaceutically suitable acid addition salts thereof.

5. (Original) A piperazinylalkylbenzofuran derivative as claimed in Claim 4, wherein in formula Ia

$R^1$ represents a methyl group,

$R^2$ stands for a hydrogen atom,

X means an oxygen atom,

Y is a hydroxy group,

Z represents a hydrogen atom,

Ar' represents a diphenylmethyl group, a pyridyl group, a benzo-1,3-dioxolanyl group or a phenyl group optionally substituted by one or two halo atom(s), one or two methyl group(s), a methylenedioxy group, a trifluoromethyl group or a methoxy group,

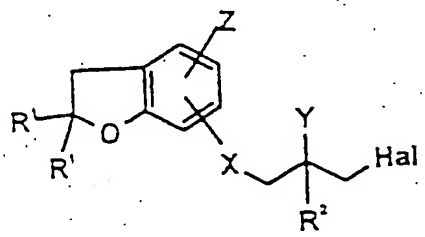
n has a value of 0 or 1,

and pharmaceutically suitable acid addition salts thereof.

6. (Canceled)

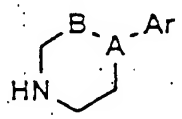
7. (Original). A process for the preparation of a benzofuran derivative of the formula I, wherein $R^1$, $R^2$, Z, X, Y, A, B and Ar are as defined in Claim 1, or a pharmaceutically suitable acid addition salt thereof, characterized in that

a) a halide of the formula




II

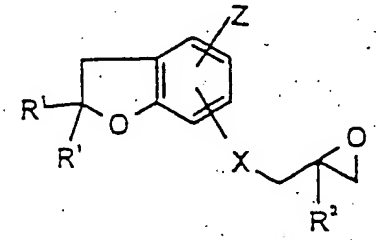
wherein $R^1$, $R^2$, X, Y and Z are as defined in connection with formula I, Hal represents a halo atom, is reacted with a secondary amine of the formula




IV

wherein A, B and Ar are as stated in connection with formula I; or

b) for the preparation of a benzofuran derivative of the formula I, wherein Y represents a hydroxy group, $R^1$, $R^2$, X, Z, A, B and Ar are as defined in connection with formula I, an epoxide of the formula



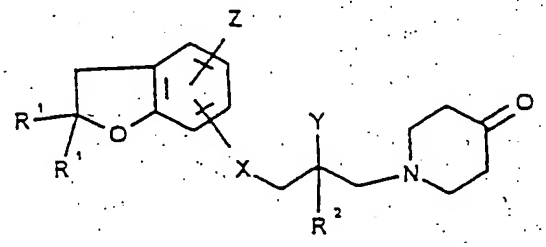

III

wherein $R^1$, $R^2$, Z and X are as defined above, is reacted with a secondary amine of the

wherein $R^2$, A, B and Ar are as stated above; or

e) for the preparation of a benzofuran derivative of the formula I, wherein A forms with B a group of the formula -C=C-, $R^1$, $R^2$, X, Y, Z and Ar are as defined in connection with formula I, a benzofuran derivative of the formula I, wherein A stands for a group of the formula COH, B represents a methylene group, $R^1$, $R^2$, X, Y, Z and Ar are as stated above, is dehydrated; or

f) for the preparation of a benzofuran derivative of the formula I, wherein A represents a group of the formula COH, B stands for a methylene group, $R^1$, $R^2$, X, Y, Z and Ar are as defined in connection with formula I, however, Ar is other than a hydrogen atom, a ketone of the formula




XV

wherein $R^1$, $R^2$, X, Y and Z are as stated above, is reacted with an arylmagnesium halide of the formula

Hal-Mg-Ar XVI

wherein Ar is as stated above, Hal represents

a halo atom, and the adduct formed is decomposed with water; or

g) for the preparation of a benzofuran derivative of the formula I, wherein A represents a group of the formula COH, B stands for a methylene group, $R^1$, $R^2$, X, Y, Z and Ar are as defined in connection with formula I, but Ar is other than a hydrogen atom, a ketone of the formula XV, wherein $R^1$, $R^2$, X, Y and Z are as stated above, is reacted with an aryl lithium compound of the formula

Li-Ar XVII

wherein Ar is as stated above, and the adduct formed is decomposed with water; or

h) for the preparation of a benzofuran derivative of the formula I, wherein A represents a group of the formula CH, B stands for a methylene group, $R^1$, $R^2$, X, Y, Z and Ar are as defined in connection with formula I, a compound of the formula I, wherein A forms with B a group of the formula -C=C-, $R^1$, $R^2$, X, Y, Z and Ar are as stated above, is hydrogenized; or

i) for the preparation of a benzofuran derivative of the formula I, wherein A represents a group of the formula CH, B stands for a methylene group, $R^1$, $R^2$, X, Y, Z and Ar are as defined in connection with formula I, an epoxide of the formula III, wherein $R^1$, $R^2$, Z and X are as stated above, is reacted

with a secondary amine of the formula IV, wherein A stands for a group of the formula CHOH, B and Ar are as stated above, under dehydrating reaction conditions, and the formed compound of the formula I, wherein A forms with B a group of the formula -C=C-, $R^1$, $R^2$, X, Y, Z and Ar are as stated above, is hydrogenized in the reaction mixture in which it was prepared; and

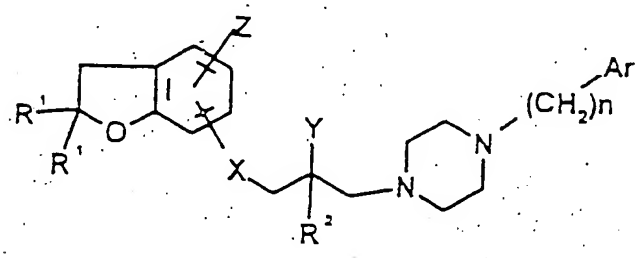
if desired, an obtained base of the formula I is reacted with an inorganic or organic acid to form a pharmaceutically suitable acid addition salt thereof, or liberated from the acid addition salt with a base.

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Original). A pharmaceutical composition as claimed in Claim 8, comprising a piperazinyl-alkylbenzofuran derivative of the formula



Ia

wherein

$R^1$ represents a $C_{1-4}$ alkyl group,
$R^2$ stands for a hydrogen atom,
X means an oxygen atom,
Y is a hydroxy group,
Z represents a hydrogen atom,
Ar' represents a diphenylmethyl group, a pyridyl group, a partially saturated 5-membered heterocyclic group containing two oxygen atoms and being condensed with a phenyl group, or a phenyl group substituted by substituents $R^5$, $R^6$ and $R^7$, wherein
$R^5$, $R^6$ and $R^7$ mean, independently, a hydrogen atom, a halo atom, a trifluoromethyl group, a $C_{1-4}$ alkyl group, a $C_{1-4}$ alkoxy group, or a methylenedioxy group,
n has a value of 0 or 1,
or a pharmaceutically suitable acid addition salt thereof as the active ingredient.

12. (Original). A pharmaceutical composition as claimed in Claim 11, comprising a piperazinyl-alkylbenzofuran derivative of the formula Ia, wherein
$R^1$ represents a methyl group,
$R^2$ stands for a hydrogen atom,
X means an oxygen atom,
Y is a hydroxy group,
Z represents a hydrogen atom,
Ar' represents a diphenylmethyl group, a pyridyl group, a benzo-1,3-dioxolanyl group or a phenyl group optionally substituted

by one or two halo atom(s), one or two methyl group(s), a methylenedioxy group, a trifluoromethyl group or a methoxy group,

n has a value of 0 or 1,

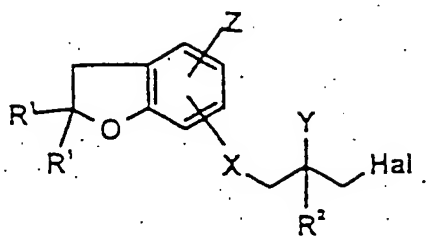
or a pharmaceutically suitable acid addition salt thereof as the active ingredient.

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Original) A halide of the formula



II

wherein

$R^1$ and $R^2$ represents, independently, a hydrogen atom or a $C_{1-4}$ alkyl group,

X stands for an oxygen atom or a sulfur atom,

Y means a hydrogen atom or a hydroxy group,

Z represents a hydrogen atom, a halo atom, a $C_{1-4}$ alkyl group, a $C_{1-4}$ alkoxy group, an amino group, a nitro group, a cyano group, a trifluoromethyl group or a group of the formula $-COOR^3$, $-NHCOR^3$ or $-SO_2NR^3R^4$, wherein

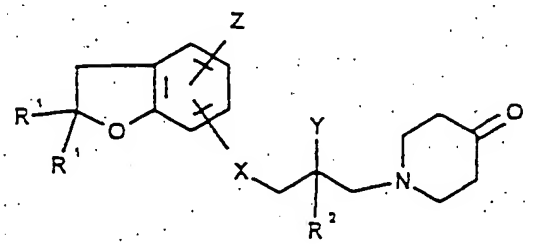
$R^3$ stands for a hydrogen atom or a $C_{1-4}$ alkyl group,

$R^4$ means a $C_{1-4}$ alkyl group, or

$R^3$ and $R^4$ form, together with the adjacent nitrogen atom, a saturated or unsaturated heterocyclic group having 5 to 10 members and optionally comprising one or more nitrogen atom(s) and/or one or more oxygen atom(s) and/or one or more sulfur atom(s),

Hal represents a halo atom.

17. (Original). A ketone of the formula



XV

wherein

$R^1$ and $R^2$ represents, independently, a hydrogen atom or a $C_{1-4}$ alkyl group,

X stands for an oxygen atom or a sulfur atom,

Y means a hydrogen atom or a hydroxy group,

Z represents a hydrogen atom, a halo atom, a $C_{1-4}$ alkyl group, a $C_{1-4}$ alkoxy group, an amino group, a nitro group, a cyano group, a trifluoromethyl group or a group of the formula $-COOR^3$, $-NHCOR^3$ or $-SO_2NR^3R^4$.

wherein

$R^3$ stands for a hydrogen atom or a $C_{1-4}$ alkyl group,

$R^4$ means a $C_{1-4}$ alkyl group, or

$R^3$ and $R^4$ form, together with the adjacent nitrogen atom, a saturated or unsaturated heterocyclic group having 5 to 10 members and optionally comprising one or more nitrogen atom(s) and/or one or more oxygen atom(s) and/or one or more sulfur atom(s).